

SUPERIOR NWS AIRPORT

MINERAL COUNTY

The Superior Airport is located 2 miles southeast of Superior at 47 10 48 N and 114 52 12 W (Site No. 78 on Map II-1). Elevation at the airport is 2,700 feet. Meteorological data were collected at this site for several years by the National Weather Service.

These data, primarily collected for aviation and weather forecasting uses, consist of short-term (5 minutes or less) averages of wind speed and wind direction, as well as other meteorological parameters. Data were gathered once per hour. The data have been analyzed by Battelle Pacific Northwest Laboratories.

The data set consists of summaries derived from hourly observations made from January 1, 1948, through November 30, 1953. The anemometer was mounted on a beacon tower at a height of 17.7 meters. The site is representative only of a restricted area along the Clark Fork.

Average monthly wind speeds varied from 4.5 miles per hour in December to 5.8 miles per hour in April, May, and August. Average annual wind speed was 5.1 miles per hour.

Average monthly wind power ranged from 11.0 watts/m² in December to 22.0 watts/m² in August. Average annual wind power was 16.0 watts/m².

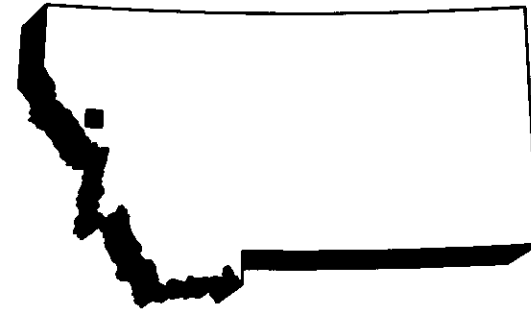


Table IV - 112
Monthly Wind Speed Distribution
MINERAL COUNTY - SUPERIOR NWS AIRPORT
01/01/48 - 11/30/53

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
CALM (<1.1)	16.4	12.4	10.3	8.5	9.0	8.7	11.9	12.2	12.7	17.8	16.6	14.6	12.5	CALM (<0.5)
1.1- 3.1	15.4	17.0	15.6	12.2	11.6	15.4	15.3	12.7	14.3	16.0	16.9	18.6	15.0	0.5- 1.4
3.4- 5.4	37.7	35.7	35.0	35.8	34.6	34.3	32.7	32.7	33.3	35.0	36.3	37.7	35.0	1.5- 2.4 S
S 5.6- 7.6	15.3	17.6	17.4	18.6	20.1	18.3	16.3	15.4	17.7	14.8	15.0	15.3	16.8	2.5- 3.4 P
P 7.8- 9.8	8.1	9.3	10.6	11.5	12.4	12.1	10.6	11.4	10.5	8.5	8.4	7.0	10.1	3.5- 4.4 E
E 10.1-12.1	5.4	6.6	8.3	9.1	9.2	8.6	9.6	11.6	8.2	6.4	5.1	5.5	7.9	4.5- 5.4 E
E 12.3-14.3	0.9	1.0	1.5	2.1	1.4	1.3	1.5	1.9	1.5	0.8	0.7	0.8	1.3	5.5- 6.4 D
D 14.5-16.6	0.4	0.3	0.7	1.3	0.8	0.8	1.0	1.1	1.0	0.4	0.5	0.3	0.7	6.5- 7.4
16.8-18.8	0.3	0.1	0.3	0.4	0.7	0.4	0.7	0.8	0.5	0.3	0.1	0.1	0.4	7.5- 8.4 M
M 19.0-21.0	0.1	0.0	0.2	0.2	0.2	0.1	0.3	0.2	0.1	0.0	0.1	0.0	0.1	8.5- 9.4 E
I 21.3-23.3	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	9.5-10.4 T
L 23.5-25.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5-11.4 E
E 25.7-27.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	11.5-12.4 R
S 28.0-30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5-13.4 S
/ 30.2-32.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5-14.4 /
H 32.4-34.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5-15.4 S
O 34.7-36.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5-16.4 E
U 36.9-38.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.5-17.4 C
R 39.1-41.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5-18.4 O
41.4-43.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.5-19.4 N
43.6-45.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5-20.4 D
45.9-56.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.5-25.4
57.0-68.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.5-30.4
68.2-79.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.5-35.4
79.4-90.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.5-40.4
>90.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	>40.4
AVERAGE SPEED (MPH)	4.7	4.9	5.4	5.8	5.8	5.6	5.6	5.8	5.4	4.7	4.7	4.5	5.1	
AVERAGE SPEED (M/SEC)	2.1	2.2	2.4	2.6	2.6	2.5	2.5	2.6	2.4	2.1	2.1	2.0	2.3	
AVERAGE WIND POWER (WATTS/M**2)	12.0	12.0	16.0	21.0	20.0	17.0	20.0	22.0	19.0	13.0	13.0	11.0	16.0	

ANEMOMETER HEIGHT = 58.0 FEET = 17.7 METERS

SOURCE: BATTELLE PACIFIC NORTHWEST LABORATORIES